Ministry of Education and Human Resource Development

Dominica

Grade 6 National Assessment June 15, 2018

TIME: 90 Minutes

DO NOT TAKE THIS PAPER OUT OF THE EXAMINATION ROOM

Mathematics

MINISTRY OF EDUCATION HUMAN RESOURCE DEVELOPMENT

INSTRUCTIONS

READ THE FOLLOWING INSTRUCTIONS BEFORE ATTEMPTING THE TEST.

1. THIS PAPER CONTAINS SIXTY (60) QUESTIONS.
2. YOU HAVE NINETY (90) MINUTES TO COMPLETE THIS PAPER.
3. FOR EACH QUESTION, SHADE THE LETTER ON THE ANSWER SHEEET THAT CORRESPONDS TO THE ANSWER YOU HAVE CHOSEN.
4. USE A PENCIL TO SHADE IN THE CORRECT ANSWER.

EXAMPLE

1. What is the **place value** of the **6** in the number 65 432 represent?
   A. Tens of thousands
   B. thousands
   C. hundreds
   D. ones

   The correct answer is **tens of thousands**, letter **A**. On your answer sheet you shade

   ● B C D

   If there is a need to change your answer, erase It and circle your new answer.

5. **IF YOU ARE UNABLE TO ANSWER A QUESTION, LEAVE IT AND MOVE ON TO THE NEXT QUESTION. YOU WILL RETURN TO IT LATER IF THERE IS AVAILABLE TIME.**
6. **NO CALCULATORS** are allowed.

NUMBER CONCEPTS AND OPERATIONS

1. All the factors of 16 are

   A. 0, 1, 2, 4, 6,16
   B. 1, 2,6, 12
   C. 1, 2, 4, 8, 16
   D. 1, 2, 4, 12

2. 386 rounded to the nearest 10 is

   A. 90
   B. 380
   C. 390
   D. 400

3. Eighteen thousand four hundred and seven written in figures is

   A. 18 407
   B. 18 417
   C. 18 470
   D. 18 400 017

4. 8 x 10, 000 + 2 x 1 000 + 3 x10 + 7 x 100 written in standard form is

   A. 80 000 2 000 30 700
   B. 80 000 2000 700 30
   C. 82 700 30
   D. 82 730

5. The number 2 can be considered a/ an

A. odd and even number
B. even and prime number
C. composite and prime number
D. prime and odd number

6. 10^2 is the same as

A. 10 x 10
B. 10 + 10
C. 10 x 2
D. 10 + 2

7. Vincent wanted to find the answer to 47 x 34. What would be the **best estimate** for the answer?

A. 40 x 30
B. 50 x 40
C. 50 x 30
D. 40 x 40

8. What is the **quotien**t of 36 and 6?

A. 36 x 6
B. 36 + 6
C. 36 – 6
D. 36 ÷ 6

9. 16 x 17 equals

A. (16 x 1) + (16 x 7)
B. (16 x 8) + (16 x 9)
C. (17 x 1) + (17 x 6)
D. (17 x 8) + (17 x 7)

10. $8 + 8 + 8 + 8 + 8 + 8$ is the same as

    A. $8 + 6$
    B. 8^6
    C. 6×8
    D. 8×8

11. What is the **sum** of **31 097** and **2 356**?

    A. 31 341
    B. 33 453
    C. 53 343
    D. 54 657

12. $473 - 294$ equals

    A. $474 - 295$
    B. $474 - 294$
    C. $472 - 295$
    D. $475 - 293$

13. $458 \div 4$

    A. 102
    B. 114 R 2
    C. 117
    D. 139 R 2

14. What is the product of 205×7?
    A. 14 735
    B. 14 035
    C. 1 435
    D. 1 405

15. Frank caught **TWICE** as many fish as his dad. If his dad caught **Y** number of fish, how many fish did they catch **ALTOGETHER**?

A. 2Y
B. 2Y + Y
C. 2 + Y
D. (2 + Y) + Y

16. Jackson played 64 video games in 4 days. He played the same number of games each day. How many games did he play **each** day?

A. 64 ÷ 4
B. 64 x 4
C. 64 + 4
D. 64 – 4

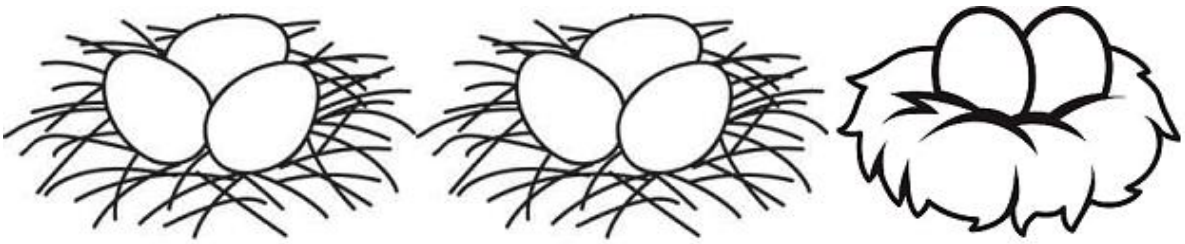
17. Martha read a 240-page book in 6 days. She read the same number of pages each day. How many pages did she read each day?

A. 1 440
B. 246
C. 234
D. 40

18. What number is **three times less than** 369?

A. 1107
B. 372
C. 366
D. 123

19. Which number sentence best represents the picture below?



A. (3 + 2) x 2
B. 3 + 2 + 2
C. (3 x 2) + 2
D. 3 + 3 + 2+ 2

20. A trucking company was hired to deliver new seats to the Windsor Park Stadium. The company hired **41** trucks to move the seats. If each truck can carry 1025 seats, how many seats will be delivered to the stadium?

A. 42 025
B. 1 107
C. 984
D. 25

21. I was born in 1971, my sister is 3 years older than I am. How old was she in 2015?

A. 41
B. 44
C. 47
D. 48

22. On Wednesday Cal drove 68 miles, on Thursday he drove 167 miles, and on Saturday he drove another 73 miles. How many miles did he drive on the three days?

A. 167
B. 308
C. 398
D. 1577

23. Jack is taller than Sue but shorter than Peter. In what order should they stand if they were placed according to height from the **tallest** to the **shortest**?

A. Peter, Jack, Sue
B. Sue, Jack, Peter
C. Jack, Sue, Peter
D. Peter, Sue, Jack

FRACTIONS AND DECIMALS

24. $2\frac{3}{4}$ is the same as

A. $^{23}/_{4}$

B. $^{12}/_{4}$

C. $^{11}/_{4}$

D. $^{5}/_{4}$

25. Which of the following fractions is the same as $\frac{1}{3}$?

A. $\frac{2}{9}$

B. $\frac{3}{6}$

C. $\frac{4}{12}$

D. $\frac{3}{8}$

26. Jenny had 3 green balls and 2 white balls. What fraction of the balls are green?

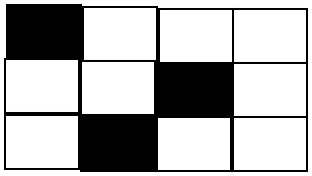
A. 3/2

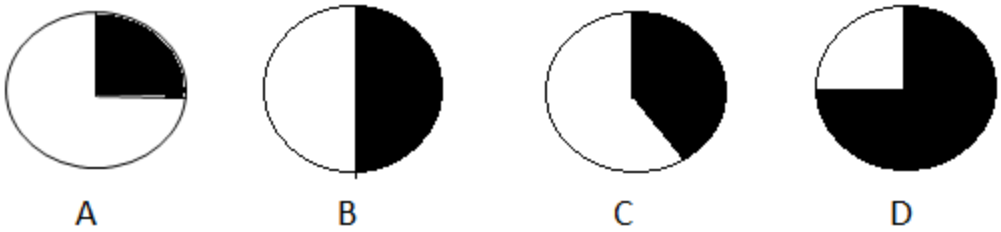
B. 3/5

C. 5/3

D. 2/3

27. Which circle has the same fraction shaded as the rectangle shown below?





28. Which decimal represents 2 hundredths?

A. 200

B. 2.00

C. 0.200

D. 0.02

29. Which decimal below has a value closest to 1?

A. 0.6

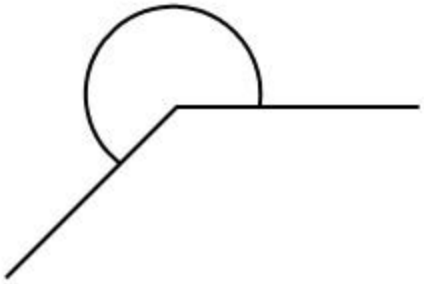
B. 0.3

C. 0.2

D. 0.001

GEOMETRY

30. The angle below is an example of a/ an …….. angle.



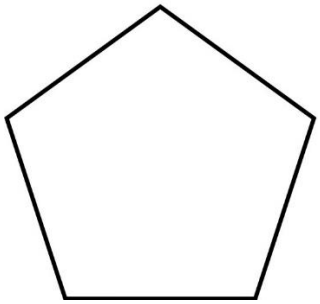
A. acute

B. obtuse

C. scalene

D. reflex

31. The shape below is an example of a



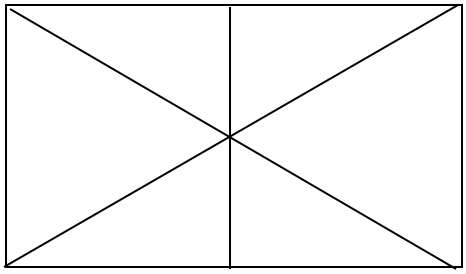
A. hexagon

B. pentagon

C. heptagon

D. octagon

32. How many **right angled** triangles can be seen in this figure?



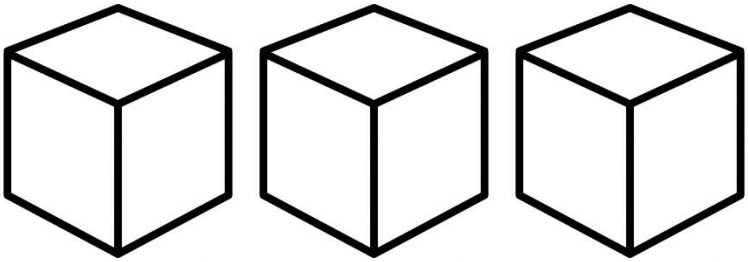
A. 14

B. 12

C. 8

D. 4

33. A solid is formed by placing three cubes exactly one on top the other so that all the sides and edges of one cube are in line with the other. The new solid formed is a …….



A. cube

B. cuboid

C. cone

D. cylinder

34. Pyramids can be named by the shape of their

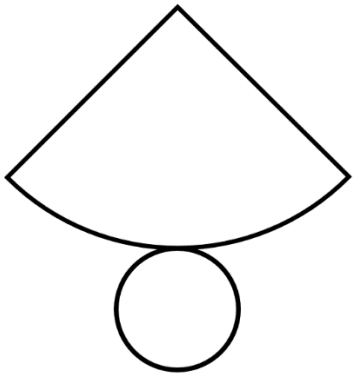
A. sides

B. bases

C. vertices

D. polygon

35. The diagram shown below is the **net** of a



A. prism

B. cylinder

C. sphere

D. cone

MEASUREMENT

36. Janice is 155 cm tall. This means that she is

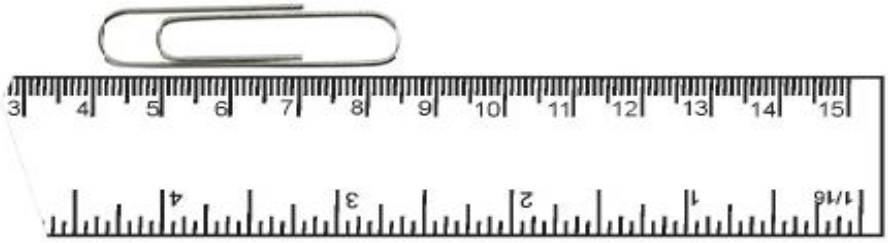
A. 1 m 55 mm

B. 1 m 55 cm

C. 15m 5 cm

D. 1 km 55m

37. The length of the paper clip shown below is



A. 4 cm

B. 4.5 cm

C. 8.5 cm

D. 15 cm

38. The area of a square with one side measuring 8 cm is

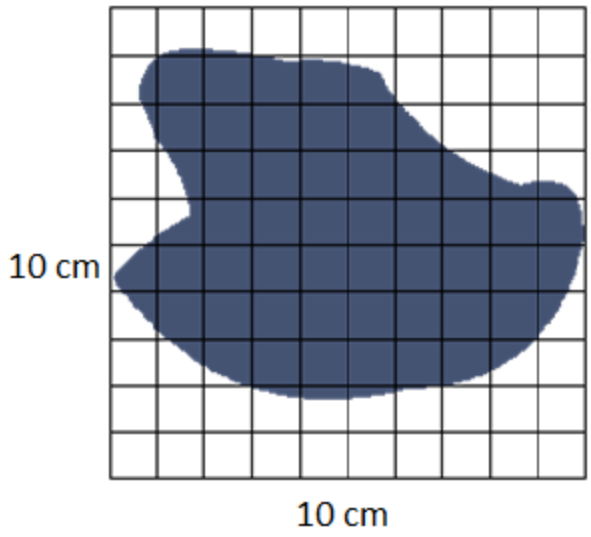
A. 64 cm^2

B. 32 cm^2

C. 20 cm^2

D. 16 cm^2

39. In the diagram below each square represents 1 cm. the area of the **irregular** shape shown below is **about**



A. 30 cm^2

B. 45 cm^2

C. 50 cm^2

D. 100 cm^2

40. A farmer had a plot of rectangular land which was 70 m long and 80 m wide. He planted dasheen on ¼ of the land, and the rest with vegetables. What area of the land was planted with vegetables?

A. 1400 m^2

B. 2800 m^2

C. 4200 m^2

D. 5600 m^2

41. A bottle holds 1 litre of water when full. How many cups of water can this bottle fill, if each cup holds 50 ml of water?

1 litre bottle

50 ml cup

A. 2

B. 20

C. 50

D. 1000

42. Which one of the following would have a mass of about **8 kg**?

A

B

C

D

43. Karen buys 750 g of rice. How many kg of rice is this?

A. 750 kg

B. 75 kg

C. 7.5 kg

D. 0.75 kg

Use the price below to answer Questions 44 and 45.

44. Using the price list above, what would be the cost of two books and two pencils?

A. $5.00

B. $4.00

C. $3.00

D. $2.00

45. If the items were bought with a $10.00 bill, how much change would be given?

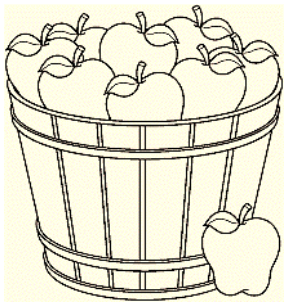
A. $8.00

B. $7.00

C. $6.00

D. $5.00

46. John bought 10 apples at 80¢ **each.** He then sold them at $1.20 each. How much **profit** did he make?



A. $4.00

B. $8.00

C. $10.00

D. $12.00

47. James earned $4.50 an hour doing chores. He worked 5 hours daily for 4 days. How much money did he earn in all?

A. $270.00

B. $90.00

C. $22.50

D. $18.20

48. The time shown on the clock below is

A. 5 minutes past 7

B. 25 minutes to 5

C. 7 minutes to 5

D. 25 minutes past 7

49. Tom left home at 7:55 am and reached school 20 minutes later. At what time did Tom arrive at school?

A. 7:35 am

B. 7:15 am

C. 8:15 am

D. 8:35 am

50. Grade 6 wants publish to class magazine printed by December 14th. It takes 4 weeks to write and 2 weeks to print. When should the writing begin **for the latest**?

A. 1st to 2nd week of October

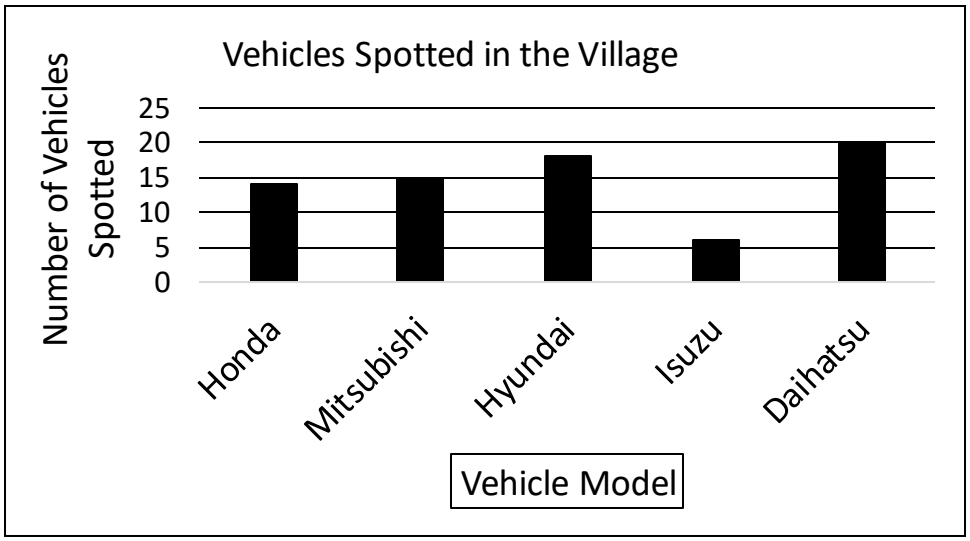
B. Last week of October to 1st week of November

C. Last week of November to 1st week of December

D. 2nd to 3rd week of October

STATISTICS

Al recorded the number of vehicles which drove through his village in one day. Study the chart below to answer questions 51 – 53.



51. How many Hondas passed through on that day?

A. 5

B. 6

C. 9

D. 11

52. How many vehicles passed on Al's street that day?

A. 5

B. 6

C. 65

D. 67

53. Al realized that at the end of the day he had counted 80 vehicles. How many vehicles were not included in the bar graph?

A. 13

B. 15

C. 75

D. 80

The chart below refers to questions 54 - 56

Jenna wanted to know the show sizes of students in her class. She got the following results and recorded them as shown below.

SHOE SIZE	NUMBER OF STUDENTS
6	𝍸 I
7	I I I
8	𝍸 𝍸
9	I

54. The data above is represented on a

A. Pie chart

B. Bar chart

C. Tally chart

D. Pictograph

55. How many students wore size 6 shoes?

A. 11

B. 6

C. 5

D. 2

56. How many students are in Jenna's class?

A. 17

B. 20

C. 21

D. 30

PATTERNS, FUNCTIONS AND ALGEBRA

57. **X** stands for the number of stamps Joe had. He gave 10 stamps to his sister. Which expression tells how many stamps Joe has now?

A. X + 10

B. 10 ÷ X

C. 10 – X

D. X - 10

58. James started the pattern shown below

1, 3, 9, 27, ___, ____

If the pattern continues, what should be the **6th** number?

A. 243

B. 108

C. 81

D. 54

59. If  + 12 = 22 and,  +  = 22

What are the values of  and  **respectively**?

A. 10 and 12

B. 10 and 11

C. 11 and 11

D. 12 and 10

60. If **A = 4** and **B = 5**, what is the value of; **6 x B – 3 x A**

A. 18

B. 22

C. 48

D. 108

END OF EXAMINATION